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L21: Entry 17 of 38

File: USPT

Jun 24, 2003

US-PAT-NO: 6584507

DOCUMENT-IDENTIFIER: US 6584507 B1

TITLE: Linking external applications to a network management system

DATE-ISSUED: June 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bradley; Karen A.	San Jose	CA		
Promes; Brian D.	San Jose	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Cisco Technology, Inc.	San Jose	CA			02

APPL-NO: 09/ 260119 [PALM]

DATE FILED: March 2, 1999

INT-CL: [07] G06 F 15/16US-CL-ISSUED: 709/229, 709/220, 709/223, 709/226, 709/239, 709/227, 710/36, 713/1
US-CL-CURRENT: 709/229; 709/220, 709/223, 709/226, 709/227, 709/239, 710/36, 713/1

FIELD-OF-SEARCH: 709/226, 709/222, 709/104, 709/100, 709/220, 709/223, 709/227, 709/229, 709/239, 707/10, 707/200, 714/38, 345/753, 710/36, 713/1

PRIOR-ART-DISCLOSED:

U. S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>5689708</u>	November 1997	Regnier et al.	709/104
<input type="checkbox"/> <u>5729682</u>	March 1998	Marquis et al.	709/100
<input type="checkbox"/> <u>5838916</u>	November 1998	Domenikos et al.	709/219
<input type="checkbox"/> <u>5841972</u>	November 1998	Fanshier	709/220
<input type="checkbox"/> <u>5859978</u>	January 1999	Sonderegger et al.	707/10
<input type="checkbox"/> <u>5893118</u>	April 1999	Sonderegger	707/200
<input type="checkbox"/> <u>6002871</u>	December 1999	Duggan et al.	714/38

<input type="checkbox"/> <u>6006035</u>	December 1999	Nabahi	717/175
<input type="checkbox"/> <u>6052719</u>	April 2000	Bezanson et al.	709/220
<input type="checkbox"/> <u>6073172</u>	June 2000	Frailong et al.	709/222
<input type="checkbox"/> <u>6094679</u>	July 2000	Teng et al.	709/220
<input type="checkbox"/> <u>6134549</u>	October 2000	Regnier et al.	345/753
<input type="checkbox"/> <u>6449642</u>	September 2002	Bourke-Dunphy et al.	709/222
<input type="checkbox"/> <u>2001/0044839</u>	November 2001	Bourke-Dunphy et al.	709/222

OTHER PUBLICATIONS

Microsoft Corporation, Jan. 1999, "BackOffice Server 4.5 Product Preview Customer Q&A", TechNet Home page.

ART-UNIT: 2142

PRIMARY-EXAMINER: Coulter; Kenneth R.

ASSISTANT-EXAMINER: Nguyen; Hai V.

ATTY-AGENT-FIRM: Hickman Palermo Truong & Becker LLP

ABSTRACT:

A method and apparatus for linking external information to a network management system are disclosed. A network management system is installed for and executes in association with a managed network. An external application program is identified by defining and storing in a connection file information that describes: the name and location of the program; a position in a menu control tree into which folders and items, which identify functions and options of the external application program, should be displayed and accessed; security roles associated with each folder and item; and other meta-information about the application program and its maker. The information may be stored in a markup format in a connection file. The network management system reads the connection file and integrates the information into its registry and other locations that determine how the network management system operates. As a result, a third-party application may be integrated into a principal network management system, even after the network management system is installed and executing. Further, the connection file need not be rewritten and the application need not be re-installed even when changes occur in underlying structures of the network management system, such as its registry or help system.

21 Claims, 18 Drawing figures

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L21: Entry 37 of 38

File: USPT

May 1, 2001

US-PAT-NO: 6226788

DOCUMENT-IDENTIFIER: US 6226788 B1

TITLE: Extensible network management system

DATE-ISSUED: May 1, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schoening; Charles B.	Guttenberg	NJ		
Smith, Jr.; Richard J.	Danville	CA		
Schleimer; Stephen I.	San Jose	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Cisco Technology, Inc.	San Jose	CA			02

APPL-NO: 09/ 121260 [\[PALM\]](#)

DATE FILED: July 22, 1998

INT-CL: [07] [G06 F 9/45](#)

US-CL-ISSUED: 717/6; 717/6, 717/11, 709/203

US-CL-CURRENT: [717/107](#); [709/203](#), [717/108](#)

FIELD-OF-SEARCH: 717/6, 717/10, 717/11, 717/9, 709/203, 709/212, 709/217, 709/223, 709/229, 709/250

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 5202985	April 1993	Goyal	707/4
<input type="checkbox"/> 5355238	October 1994	Kight et al.	359/135
<input type="checkbox"/> 5392400	February 1995	Berkowitz et al.	709/203
<input type="checkbox"/> 5444850	August 1995	Chang	709/222
<input type="checkbox"/> 5455950	October 1995	Vasseur et al.	709/212
<input type="checkbox"/> 5522044	May 1996	Pascucci et al.	709/222

<input type="checkbox"/>	<u>5537533</u>	July 1996	Staheli et al.	714/5
<input type="checkbox"/>	<u>5715373</u>	February 1998	Desgrousilliers et al.	706/47
<input type="checkbox"/>	<u>5734907</u>	March 1998	Jarossay et al.	717/8
<input type="checkbox"/>	<u>5778184</u>	July 1998	Brownmiller et al.	709/224
<input type="checkbox"/>	<u>5905715</u>	May 1999	Azarmi et al.	370/244
<input type="checkbox"/>	<u>5913028</u>	June 1999	Wang et al.	709/203
<input type="checkbox"/>	<u>5978578</u>	May 1999	Azarya et al.	717/1
<input type="checkbox"/>	<u>6041347</u>	March 2000	Harsham et al.	709/220
<input type="checkbox"/>	<u>6134581</u>	October 2000	Ismael et al.	709/202

OTHER PUBLICATIONS

Bellavista et al, "An integrated management environment for network resources and services", IEEE, vol. 18, No. 5, pp 676-685, May 2000.*

Jiao et al, "Toward efficient monitoring", IEEE, vol. 18, No. 5, pp 723-732, May 2000.*

Brunner et al, "Service management in multiparty active network", IEEE, pp 144-151, Mar. 2000.*

Raz et al, "Active networks for efficient distributed network management", IEEE, pp 138-143, Mar. 2000.*

Wijate et al, "A scalable agent based network measurement infrastructure", IEEE, pp 174-183, May 2000.*

Chung et al, "AUTomatic subject indexing using an associative neural network", ACM DL, pp 59-68, Mar. 1998.*

Enfield, "Development of the AT&T personal link service on line documentation", ACM DOC, pp39-48, Aug. 1995.

ART-UNIT: 212

PRIMARY-EXAMINER: Lintz; Paul R.

ASSISTANT-EXAMINER: Khatri; Anil

ATTY-AGENT-FIRM: Hickman Palermo Truong & Becker LLP Palermo; Christopher J.

ABSTRACT:

In a network management system, a method and apparatus for preparing a computer program for execution in relation to a particular network device among a plurality of network devices having a plurality of device types is provided. Each network device is associated with a device type value, and each network device has an associated device mapper. The device mappers are stored in a hierarchical structure that reflects a functional relationship or family relationship of the devices. Functions to be carried out by one or more devices are expressed as a plurality of executable program components. Preferably, each executable program component has one or more classes that define executable functions. Each device mapper associates a device type value with one or more overridden classes in the executable program components and one or more overriding classes. At runtime, device type values are acquired for each device in the managed network. For each device type, one or more functions are assembled using only the executable program components associated with that device type. Based on the device mapper of that device type, classes in the executable program components are overridden and the overriding classes are substituted. As a result, at runtime the network management system integrates into

itself executable program components for new devices.

44 Claims, 36 Drawing figures

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L1: Entry 1827 of 18951

File: PGPB

Mar 20, 2003

DOCUMENT-IDENTIFIER: US 20030056082 A1

TITLE: System and method for controlling free space distribution by key range within a database

Detail Description Paragraph:

[0027] FIG. 1 illustrates a computer system 82 operable to control free space distribution by key range within a database. One embodiment of a method for controlling free space distribution by key range within a database is described below. The computer system 82 may be any type of computer system, including a personal computer system, mainframe computer system, workstation, network appliance, Internet appliance, personal digital assistant (PDA), television system or other device. In general, the term "computer system" can be broadly defined to encompass any device having at least one processor that executes instructions from a memory medium.

Detail Description Paragraph:

[0030] The computer system 82 may include a memory medium(s) on which one or more computer programs or software components according to one embodiment of the present invention may be stored. For example, the memory medium may store one or more software programs which are executable to perform the methods described herein. Also, the memory medium may store a programming development environment application used to create and/or execute the software programs. The memory medium may also store operating system software, as well as other software for operation of the computer system.

Detail Description Paragraph:

[0031] The term "memory medium" is intended to include an installation medium, e.g., a CD-ROM, floppy disks, or tape device; a computer system memory or random access memory such as DRAM, SRAM, EDO RAM, Rambus RAM, etc.; or a non-volatile memory such as a magnetic media (e.g., a hard drive) or optical storage. The memory medium may comprise other types of memory as well, or combinations thereof. In addition, the memory medium may be located in a first computer in which the programs are executed, or may be located in a second different computer which connects to the first computer over a network, such as the Internet. In the latter instance, the second computer may provide program instructions to the first computer for execution.

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L1: Entry 1806 of 18951

File: PGPB

Mar 27, 2003

DOCUMENT-IDENTIFIER: US 20030061034 A1

TITLE: Determining defective devices which generate sound during operation

Detail Description Paragraph:

[0073] In general, processing unit 310 reads sequences of instructions from various types of memory medium (including on-chip memory 320, storage 330 and removable storage unit 340), and executes the instructions to provide various features of the present invention described above. In particular, a set of software instructions may be designed to analyze the digital samples representing the sound signals generated by a motor to determine whether the motor is defective or not. Another set of signals may be used to cancel the noise components generated by far microphone 230 from the incident sound signals generated by near microphone 220.

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